

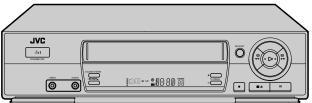


ENGLISH

VIDEO CASSETTE RECORDER

HR-J267MS HR-J261MS





The recorder illustrations appearing in this instruction manual are of the HR-J267MS.



CONTENTS	
SAFETY FIRST	2
Safety Precautions	2
INSTALLING YOUR NEW RECORDE	
Basic Connections	3
INITIAL SETTINGS	4
Video Channel Set	
Auto Set UpOn-Screen Displays	6 8
Select Language	9
Clock Set	10
PLAYBACK	11
Basic Playback	
Playback Features	
RECORDING Basic Recording	16
Recording Features	
B.E.S.T. Picture System	
TIMER RECORDING	20
Express Timer Programming	20
EDITING	24
Edit To Another Video	2.4
Recorder Edit From A Camcorder Or	24
Another Video Recorder	25
INFORMATION ON MULTI-SYSTEM	
COMPATIBILITY	26
TUNER SET	28
TROUBLESHOOTING	32
	32
QUESTIONS AND ANSWERS	35
QUESTIONS AND ANSWERS INDEX	

INSTRUCTIONS



Safety Precautions

The rating plate and the safety caution are on the rear of the unit.

WARNING: DANGEROUS VOLTAGE INSIDE

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR

MOISTURE.

CAUTION

When you are not using the recorder for a long period of time, it is recommended that you disconnect the power cord from the mains outlet.

■ Dangerous voltage inside. Refer internal servicing to qualified service personnel. To prevent electric shock or fire hazard, remove the power cord from the mains outlet prior to connecting or disconnecting any signal lead or aerial.

ATTENTION

- 1. This recorder can also receive SECAM colour television signals for recording and playback.
- 2. Recordings made of SECAM television signals produce monochrome pictures if played back on another video recorder of SECAM standard, or do not produce normal colour pictures if played back on another video recorder of PAL standard.
- 3.SECAM prerecorded cassettes or recordings made with a SECAM video recorder produce monochrome pictures when played back with this recorder.

POWER SYSTEM

This set operates on voltage of AC110 – 240 V \sim (Rating), AC90 – 260 V \sim (Operating), 50/60 Hz with automatic switching.

Warning on lithium battery

The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate.

Replace battery with Panasonic (Matsushita Electric), Sanyo, Sony or Maxell CR2025; use of another battery may present a risk of fire or explosion.

- Dispose of used battery promptly.
- Keep away from children.
- Do not disassemble and do not dispose of in fire.

WHS PALNTSC

- Only cassettes marked "VHS" (or "S-VHS") can be used with this videorecorder. However, S-VHS recording is not possible with this model.
- HQ VHS is compatible with existing VHS equipment.

IMPORTANT

- Please read the various precautions on this page before installing or operating the recorder.
- It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

The STANDBY/ON \bigcirc /I button does not completely shut off mains power from the unit, but switches operating current on and off. " \bigcirc " shows electrical power standby and "I" shows ON.

Video tapes recorded with this video recorder in the LP (Long Play) or EP (Extended Play) mode cannot be played back on a single-speed video recorder.

Failure to heed the following precautions may result in damage to the recorder, remote control or video cassette.

- 1. DO NOT place the recorder . . .
 - ... in an environment prone to extreme temperatures or humidity.
 - ... in direct sunlight.
 - ... in a dusty environment.
 - ... in an environment where strong magnetic fields are generated.
 - .. on a surface that is unstable or subject to vibration.
- 2. DO NOT block the recorder's ventilation openings.
- 3. <u>DO NOT</u> place heavy objects on the recorder or remote control.
- DO NOT place anything which might spill on top of the recorder or remote control.
- 5. AVOID violent shocks to the recorder during transport.

MOISTURE CONDENSATION

Moisture in the air will condense on the recorder when you move it from a cold place to a warm place, or under extremely humid conditions—just as water droplets form in the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions where condensation may occur, keep the recorder turned on for a few hours to let the moisture dry.

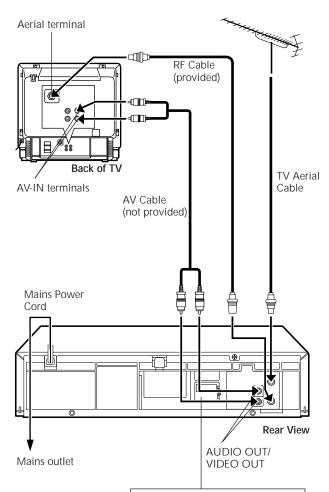
ABOUT HEAD CLEANING

Accumulation of dirt and other particles on the video heads may cause the playback picture to become blurred or interrupted. Be sure to contact your nearest JVC dealer if such troubles occur.

Auto Head Cleaner

A built-in head cleaner automatically cleans the video heads and head drum whenever a tape is loaded or unloaded to reduce head clogging.

Basic Connections



Connect the power plug to an AC outlet <u>before</u> installing the lithium battery. **F** pg. 5

It's essential that your video recorder be properly connected. Follow these steps carefully. THESE STEPS MUST BE COMPLETED BEFORE ANY VIDEO OPERATION CAN BE PERFORMED.

CHECK CONTENTS

Make sure the package contains all of the accessories listed in "Specifications" (pg. 39).

SITUATE RECORDER

Place the recorder on a stable, horizontal surface.

CONNECT RECORDER TO

The connection method you use depends on the type of TV you have.

RF CONNECTION

- To Connect To A TV With NO AV Input Terminals . . .
 - a- Disconnect the TV aerial cable from the TV.
 - **b** Connect the TV aerial cable to the ANT. IN jack on the rear panel of the recorder.
 - c– Connect the provided RF cable between the RF OUT jack on the rear panel of the recorder and the TV's aerial terminal.

AV CONNECTION

- To Connect To A TV With AV Input Terminals . .
 - a– Connect the aerial, recorder and TV as per "RF CONNECTION".
 - **b** Connect an optional AV cable between the AUDIO OUT and VIDEO OUT connectors on the rear panel of the recorder and the TV's AV-IN terminals

CONNECT RECORDER TO MAINS

Plug the end of the mains power cord into a mains outlet.

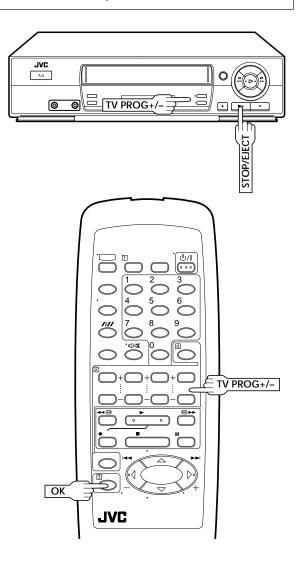
ATTENTION

If you have finished all the necessary connections, go to "Video Channel Set" on page 4, then perform Auto Set Up on page 6; do NOT press the δ_{l} button on the recorder/remote control to turn on the recorder's power before you start Auto Set Up.

1

Video Channel Set

Video Channel (RF Output Channel) is the channel on which your TV receives picture and sound signals from the video recorder through the RF cable.





To view picture signals from the video recorder, set your TV to the Video Channel.

If you have connected the video recorder to your TV via the provided RF cable only (RF connection) – Go to "With RF Connection" below.

If you have connected the video recorder to your TV via both the provided RF cable and an AV cable (AV connection) – Go to "With AV Connection" on next page.

With RF Connection

IMPORTANT:

Before performing the following steps, make sure the recorder's power is off and there is no cassette inserted in the recorder.

ACCESS VIDEO CHANNEL SET MODE

Hold down **STOP/EJECT** on the recorder until the display panel shows the following.



SELECT TV SYSTEM

Press **TV PROG** + or – to set appropriate TV system that matches the system of TV being used (refer to the table below).



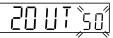
Major Countries	TV System
New Zealand, Kuwait, U.A.E., Indonesia, Singapore, Thailand, Malaysia, Iran, Saudi Arabia, Egypt, Morocco, Lebanon, Iraq	B/G
China, Mongolia, Russia	D/K
Hong Kong	I
Australia	Н

SET VIDEO CHANNEL

Set your TV to UHF channel 36.

- If the two vertical white bars appear clearly on the screen as shown in the illustration ("TEST SIGNAL" on page 4), press OK and then go to step 4.
- If the two vertical white bars do not appear clearly, press OK and then TV PROG + or - to set the video recorder to a vacant channel between 28 and 60 which is not occupied by any local station in your area.

(Ex.) If channel 50 is available in your area



Then set your TV to UHF channel 50 and check if the two vertical white bars appear clearly on the screen; if so, go to step 4. If not, re-set the video recorder to another vacant channel and try again.

NOTES:

- If you set the video recorder to a channel which is occupied by a local station or has neighbouring channels that are occupied by local stations, the picture reception quality will be affected and some interference noise will appear on the TV screen. Be sure to select a vacant channel which has no broadcast on neighbouring channels.
- If you cannot obtain the two vertical white bars clearly with any channel between 28 and 60, consult your JVC dealer.

FINISH VIDEO CHANNEL SFT

Press **OK**.

 If Auto Set Up (pg pg. 6) or Tuner Set (pg pg. 28) has not previously been performed, the Language Select screen appears and Auto Set Up function takes place automatically.

With AV Connection

IMPORTANT:

Before performing the following steps, make sure the recorder's power is off and there is no cassette inserted in the recorder.

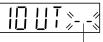
ACCESS VIDEO CHANNEL SET MODE

Hold down **STOP/EJECT** on the recorder until the display panel shows the following.



SET VIDEO CHANNEL

Press **OK**, then press **TV PROG** – until the display panel shows the following.



Now the video channel is set to off (- -).

FINISH VIDEO CHANNEL SET

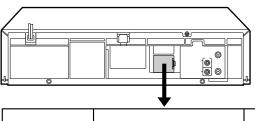
3

Press OK.

 If Auto Set Up (IF pg. 6) or Tuner Set (IF pg. 28) has not previously been performed, the Language Select screen appears and Auto Set Up function takes place automatically.

To view picture signals from the video recorder, set your TV to its AV mode.

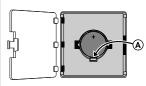
Be sure to connect the power plug to an AC outlet first before installing the lithium battery; otherwise, the battery's service life will be drastically shortened.

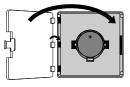


Installing/Removing the lithium battery

- 1 Make sure that the power plug is connected to an AC outlet and turn off the VCR power.
- 2 Open the battery cover while pressing the release tab as illustrated.
- Insert a lithium battery with the plus (+) side up and push it in.
 - To remove the lithium battery, press the latch (A) downward using a pointed non-metallic object, then pull out the lithium battery.
- 4 Close the battery cover until it clicks in place.



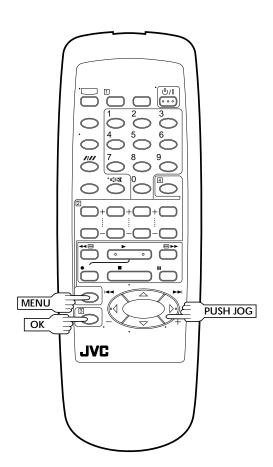




Auto Set Up

IMPORTANT

- Don't press any buttons on the recorder or remote that are not directly related to the step you are performing while Auto Set Up is in progress.
- If you perform Auto Set Up successfully during installation, there's no need to separately perform the Language Select, Clock Set or Channel Set procedures, but if adjustments become necessary they can be performed as follows:
 - To change the selected language r pg. 9
 - To reset or adjust the time of pg. 10
 - To add/delete channels manually ☞ pg. 29
 - To reset the tuner after moving to a different location
 pq. 28



The Auto Set Up function simplifies installation by guiding you through the procedures of setting the language, clock and tuner channels — simply follow the on-screen menus that appear.

Before starting, make sure of the following:

- The TV aerial cable should be connected to the recorder.
- The recorder's mains power cord should be connected to a mains outlet.

 pg. 3
- The "Video Channel Set" procedure should be done first and the TV should be set to its AV mode (with AV connection ₱ pg. 5) or video channel (with RF connection ₱ pg. 4).

SELECT LANGUAGE

Press **PUSH JOG** △∇ to place the pointer next to your desired language (English, Chinese or Russian), then press **OK** or **PUSH JOG** ▷.

The Clock Set screen appears.

SET TIME

Press **PUSH JOG** △▽ to set the time, then press **OK** or **PUSH JOG** ▷.

 Press and hold either button to delay or advance the time by 30 minutes.

	CLOCK SET	
₹IME // //0:00	DATE 01.01	YEAR 99
[▲/▼] → [MENU] : E	OK) XIT	

SET DATE

Press **PUSH JOG** △▽ to set the date, then press **OK** or **PUSH JOG** ▷.

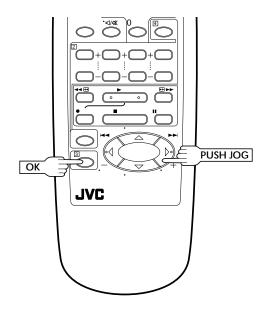
Press and hold either button to change the date by 15 days.

SET YEAR

Press **PUSH JOG** $\triangle \nabla$ to set the year, then press **MENU**.

4

Major Countries	TV System
Australia, New Zealand, Kuwait, U.A.E., Indonesia, Singapore, Thailand, Malaysia, Iran, Saudi Arabia, Egypt, Morocco, Lebanon, Iraq	B/G
China, Mongolia, Russia	D/K
Hong Kong	1



SELECT TV SYSTEM

Press **PUSH JOG** $\triangle \nabla$ to place the pointer next to the appropriate TV system (refer to the table on the left).

START AUTO CHANNEL SET

Press **OK** or **PUSH JOG** ▷.

- The Auto Set Up function scans all the channels that are receivable by your recorder. It then automatically assigns each receivable channels to the TV PROG buttons. It skips non-receivable channels.
- As Auto Set Up progresses, the " " mark on the screen moves from left to right. (See below.)

DO NOT press any button on the recorder or remote control while Auto Set Up is in progress.



During Auto Set Up

"PLEASE WAIT" blinks on the screen and "Auto" blinks on the front display panel.

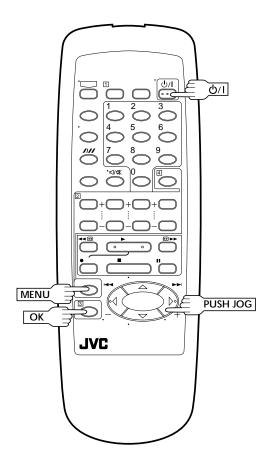
When Auto Set Up is completed, the lowest position number will appear on the front display panel.

NOTES:

- If you perform Auto Set Up when the aerial cable is not connected properly, "SCAN COMPLETED -NO SIGNAL-" appears on the screen. When this happens, make sure of the aerial connection and press **OK**; Auto Set Up will take place again.
- If there is a power cut, or if you press 0/1 or **MENU** while Auto Set Up is in progress, Auto Set Up will be interrupted; be sure to turn off the recorder power once and try again.
- If you want to set the tuner manually such as to add or skip channels, to swap channel positions, or to fine-tune channels, graps 29–31.
- If no sound accompanies the picture or the audio sounds unnatural on some channels that have been stored by Auto Set Up, the TV system setting for those channels may be incorrect. Select the appropriate TV system for those channels. ** "TV System Selection When you see the picture but the audio can't be heard or sounds unnatural" on page 31.

On-Screen Displays

Turn on the TV and select the VIDEO channel (or AV mode).



You can choose whether or not to have various operational indicators appear on screen, by setting this function ON or OFF.

1

TURN ON THE RECORDER

Press U/I.

ACCESS MAIN MENU SCREEN

Press **MENU**

2

ACCESS FUNCTION SET SCREEN

Place the pointer next to "FUNCTION SET" by pressing PUSH JOG △∇, then press OK or PUSH JOG ▷.

ENABLE/DISABLE ON-SCREEN DISPLAY

The default setting is "ON", so if you want on-screen displays, leave the setting as it is and go to step 5. If you don't want the displays to appear, press

PUSH JOG △∇ to place the pointer next to

"O.S.D." and press **OK** or **PUSH JOG** ▷ to set to "OFF".

FUNCTION SET

B.E.S.T. ON
PICTURE CONTROL AUTO
AUTO TIMER OFF

□ O.S.D. ON
AUTO SP→LP TIMER OFF

□ MENU] : EXIT

RETURN TO NORMAL SCREEN

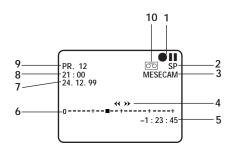
Press **MENU**.

5

NOTES:

- When you use this recorder as the player for editing, be sure to set "O.S.D." to "OFF" before starting.
- During playback, the operation mode indicators may be disturbed depending on the type of tape being used.

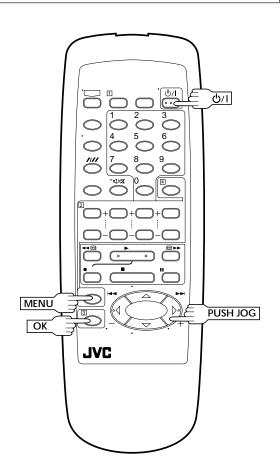
The superimposed indication on the TV screen tells you what the recorder is doing.



- 1- Operation mode indicators
- 2- Tape speed SP/LP/EP
- 3- Colour system indicator (F) pg. 26)
- 4- Tape direction
- 5- Counter display
- 6- Tape position indicator (F pg. 15)
- 7- Current day/month/year
- 8- Clock display
- 9- Channel position number/Aux. indicator (F-1)
- 10- Cassette loaded mark

Select Language

Turn on the TV and select the VIDEO channel (or AV mode).



TURN ON THE RECORDER

Press U/I.

ACCESS MAIN MENU SCREEN

Press **MENU**.

ACCESS INITIAL SET SCREEN

Press **PUSH JOG** △▽ to place the pointer next to "INITIAL SET", then press **OK** or **PUSH JOG** ▷.

MAIN MENU

FUNCTION SET
TUNER SET

FINITIAL SET

 $[\blacktriangle/\blacktriangledown] \to \bigcirc \mathbb{K}$ [MENU] : EXIT

ACCESS LANGUAGE SELECT SCREEN

Press **PUSH JOG** △∇ to place the pointer next to "LANGUAGE", then press **OK** or **PUSH JOG** ▷.

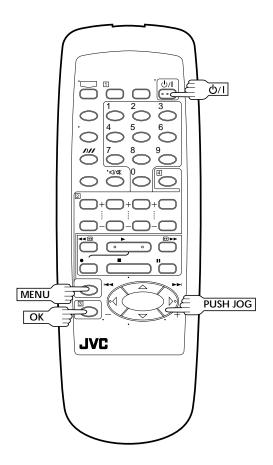
SELECT LANGUAGE

RETURN TO NORMAL SCREEN Press MENU.

6

Clock Set

Turn on the TV and select the VIDEO channel (or AV mode).



TURN THE RECORDER ON

Press U/I.

ACCESS MAIN MENU SCREEN

Press **MENU**.

ACCESS INITIAL SET SCREEN

Press **PUSH JOG** △▽ to place the pointer next to "INITIAL SET", then press OK or PUSH JOG ▷.

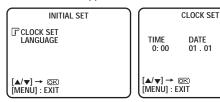
ACCESS CLOCK SET SCREEN

Press **PUSH JOG** △▽ to place the pointer next to "CLOCK SET", then press OK or PUSH JOG ▷. The Clock Set screen appears

DATE

01 . 01

YEAR 99



SET TIME

Press **PUSH JOG** △▽ to set the time, then press **OK** or PUSH JOG ▷.

• Press and hold either button to delay or advance the time by 30 minutes.

SET DATE

Press **PUSH JOG** $\triangle \nabla$ to set the date, then press **OK** or PUSH JOG ▷.

• Press and hold either button to change the date by 15 days.

SET YEAR

Press **PUSH JOG** $\triangle \nabla$ to set the year.

START CLOCK OPERATION

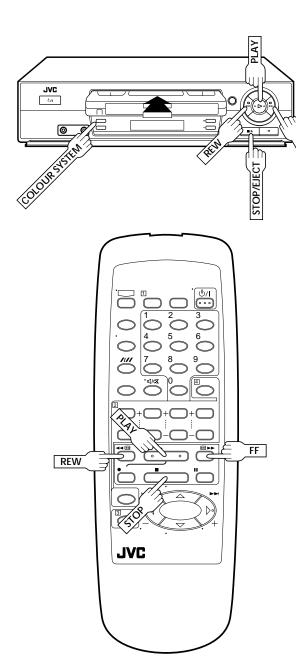
Press **MENU**.

NOTE:

If the year digits are automatically cleared, it is possible that you have input February 29th in a non-leap year. Input the correct data. PLAYBACK EN 11

Basic Playback

Turn on the TV and select the VIDEO channel (or AV mode).



The easiest, most basic operation possible with your video recorder is tape playback. Already-recorded signals on a video tape are read by your video recorder and displayed on your TV just like a TV programme.

LOAD A CASSETTE

Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is point toward the recorder. Don't apply too much pressure when inserting.

- The recorder power comes on automatically and the counter is reset to 0:00:00.
- Select the appropriate colour system by pressing the COLOUR SYSTEM button. (Fig. 26)
- If the record safety tab has been removed, playback begins automatically. (i= pg. 16)

FIND PROGRAMME START POINT

If the tape is advanced past the start point, press **REW**. To go forward, press **FF**.

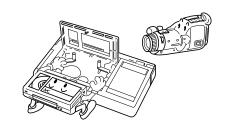
START PLAYBACK

Press **PLAY**. "BEST" appears blinking in the recorder's display panel during automatic tracking. (() pg. 18)

STOP PLAYBACK

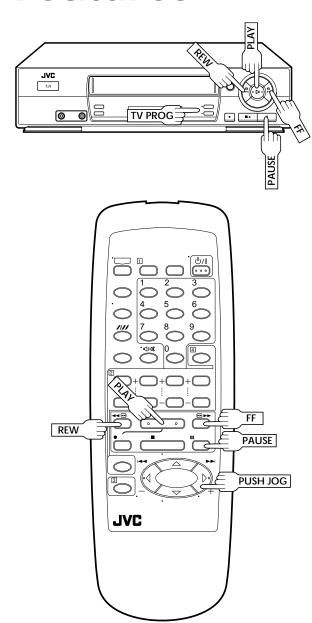
Press **STOP** on the remote or **STOP/EJECT** on the recorder's front panel. Then press **STOP/EJECT** to remove the cassette.

Usable cassettes



- Compact VHS camcorder recordings can be played on this video recorder. Simply place the recorded cassette into a VHS Cassette Adapter and it can be used just like any full-sized VHS cassette.
- This video recorder can record on regular VHS and Super VHS cassettes. However, it will record and play back regular VHS signals only. It is not possible to play back a recorded Super VHS tape.

Playback Features



ATTENTION

In the search, still, slow-motion or frame-by-frame playback mode,

- the picture will be distorted.
- the noise bars will appear.
- the picture may not appear.

These problems may occur especially in the SP mode.

Variable-Speed Search

1

ACTIVATE VARIABLE-SPEED SFARCH

During playback, press **PUSH JOG** ⊲ or ▷.

- The more times you press, the faster the playback picture moves.
- To decrease speed, press the button for the opposite direction.

To resume normal playback, press PLAY.

Still Picture/Frame-By-Frame Playback

1

PAUSE DURING PLAYBACK

Press **PAUSE**. If there is vertical jitter, use the **TV PROG** buttons to correct the picture.

ACTIVATE FRAME-BY-FRAME PLAYBACK

2

Press **PAUSE**.

OR

Press **PUSH JOG** ⊲ or ⊳.

To resume normal playback, press PLAY.

Slow Motion



ACTIVATE SLOW-MOTION PLAYBACK

1

During still picture, press and hold ${\bf PAUSE}\;$ for 2 seconds, then release. Press and release again to return to still picture.

OR

During still picture, press and hold **PUSH JOG** \triangleleft or \triangleright . Release to return to still picture.

To resume normal playback, press PLAY.

High-Speed Search



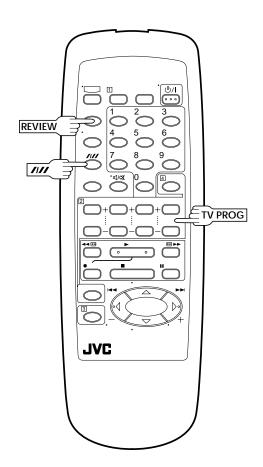
ACTIVATE HIGH-SPEED SEARCH

During playback or still, press **FF** for forward highspeed search, or **REW** for reverse high-speed search.

To resume normal playback, press PLAY.

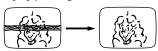
NOTE:

For short searches, press and hold **FF** or **REW** during playback or still picture. When released, normal playback resumes.



Manual Tracking

Your video recorder is equipped with automatic tracking control. During playback, you can override this and adjust the tracking manually by pressing the **TV PROG** buttons.



OVERRIDE AUTOMATIC TRACKING

Press //// (SP/LP/EP) on the remote to engage manual tracking.

ADJUST TRACKING MANUALLY

Press TV PROG + or - to adjust tracking.

RETURN TO AUTOMATIC TRACKING

Press //// (SP/LP/EP) on the remote to re-engage automatic tracking.

NOTE:

When a new tape is inserted, the recorder enters the automatic tracking mode automatically.

Instant ReView

Simply by pressing a single button, the recorder power comes on, rewinds, and begins playback of the last timer-recorded programme. If you have several programmes recorded, you can easily access any of them.

NOTE:

Before starting, make sure that the recorder is off and that the Timer mode is disengaged.

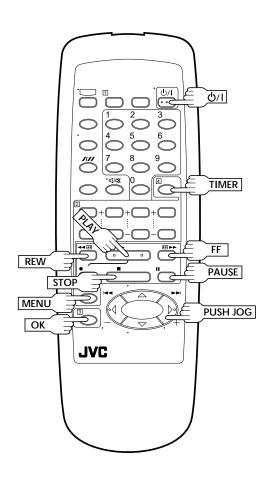
ACTIVATE INSTANT REVIEW

Press **REVIEW**. The recorder power comes on and the recorder searches for the index code indicating the start of the last timer-recorded programme. Once it's found, playback begins automatically.

• The front display panel tells you how many programmes have been recorded. If you have, for example, 3 programmes, "REVIEW" and "3" appear and blink. To watch the first of the 3 programmes, press REVIEW three times. The recorder searches and begins playback automatically. You can access a programme as far as 9 index codes away from the current tape position.

NOTE:

Instant ReView is not possible while the recorder is in the Timer mode.



Index Search

Your recorder automatically marks index codes at the beginning of each recording. This function gives you quick access to any one of 9 index codes in either direction.



NOTE:

Before starting, make sure the recorder is in the Stop mode.

ACTIVATE INDEX SEARCH

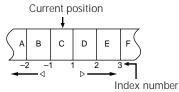
Press **PUSH JOG** ▷ or ▷ (I◄ or ►►) on the remote control. "I◄ 1" or "►► 1" is displayed on screen and search begins in the corresponding direction.

To access index codes 2 through 9, press PUSH JOG

 ⊲ or ▷ repeatedly until the correct index number is
 displayed.

Ex.: To locate the beginning of B from the current position, press **PUSH JOG** ⊲ twice.

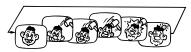
To locate the beginning of D from the current position, press **PUSH JOG** ⊳ once.



 When the specified index code is located, playback begins automatically.

Repeat Playback

Your video recorder can automatically play back the whole tape 50 times repeatedly.



1

START PLAYBACK

Press **PLAY**.

ACTIVATE REPEAT PLAYBACK

2

Press PLAY and hold for over 5 seconds, then release.

- The Play indicator ((>) on the display panel blinks slowly.
- The tape plays 50 times automatically, and then stops.

STOP PLAYBACK

Press **STOP** at any time to stop playback.

NOTE:

Pressing PLAY, REW, FF or PAUSE also stops Repeat Playback.

Next Function Memory

The Next Function Memory "tells" the recorder what to do after rewinding. Before continuing, ensure that the recorder is in the Stop mode.

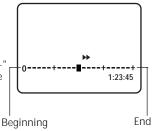
- a– For Automatic Start Of Playback After Tape Rewind... ...press REW, then press PLAY within 2 seconds.
- b- For Automatic Power Off After Tape Rewind...
 ...press **REW**, then press **\Omega**/**J** within 2 seconds.
- c– For Automatic Timer Standby After Tape Rewind... ...press REW, then press TIMER within 2 seconds.

NOTE:

It is not possible to select the Automatic Timer functions if the cassette's record safety tab is removed.

Tape Position Indicator

The tape position indicator appears on screen when, from the Stop mode, you press FF, REW or perform an Index Search. The position of "■" in relation to "0" (beginning) or "+" (end) shows you where you are on the tape.
"O.S.D." (□ pg. 8) must be set to "ON", or the indicator



NOTE:

will not appear.

Depending on the type of tape used, there may be times when the indication is not correct.

Picture Control

This feature helps you to adjust the playback picture quality according to your preference. *The default setting is "AUTO."

1

ACCESS MAIN NENU SCREEN

Press **MENU**

ACCESS FUNCTION SET SCREEN

Place the pointer next to "FUNCTION SET" by pressing PUSH JOG △∇, then press OK or PUSH JOG ▷.

SELECT PICTURE CONTROL SET MODE

Place the pointer next to "PICTURE CONTROL" by pressing **PUSH JOG** △♥, then press **OK** or **PUSH JOG** ▷ to select the desired mode.

AUTO*: Normally select "AUTO."

B.E.S.T. ON

| PICTURE CONTROL AUTO
AUTO TIMER OFF
O.S.D. ON
AUTO SP→LP TIMER OFF

| ▲/▼] → ②E
| MENU]: EXIT

It automatically adjusts the picture quality.

* When the B.E.S.T. function is set to "OFF" (pg. 18), you can only select "NORM" instead of "AUTO."

EDIT: Select when you dub tapes.

SOFT: Select when you want to soften the picture. **SHARP:** Select when you want to sharpen the picture.

NOTES:

- When you select "EDIT", "SHARP" or "SOFT", the selected mode will not change until you select again.
- When you select "EDIT" to dub tapes, be sure to select "AUTO" (or "NORM" when the B.E.S.T. function is set to "OFF") after you finish dubbing the tapes.

RETURN TO NORMAL SCREEN

Press **MENU**.

4

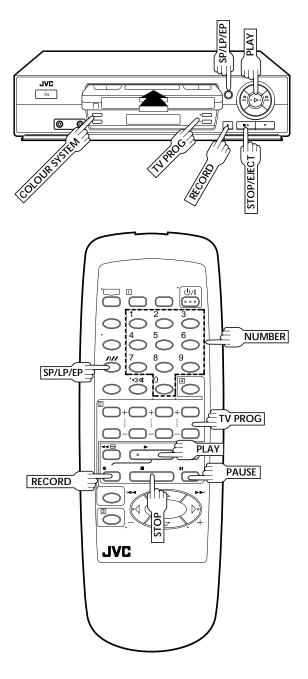
NOTE:

Select "EDIT" when you are dubbing tapes. Refer to page 24, 25

16_{EN} RECORDING

Basic Recording

Turn on the TV and select the VIDEO channel (or AV mode).



TV signals being received by the recorder's built-in tuner can be recorded onto a video tape. You can "capture" a TV programme using your video recorder.

LOAD A CASSETTE

Insert a cassette with the record safety tab intact.

- The counter is reset to 0:00:00 and the recorder power comes on automatically.
- Select the appropriate colour system by pressing the COLOUR SYSTEM button (pp. 26).

CHOOSE A PROGRAMME

Press **TV PROG** +/- or the **NUMBER** keys to select the channel you wish to record.

SET TAPE SPEED

Press SP/LP/EP (////). Check the SP/LP/EP indicator on the recorder display panel to confirm the selected tape speed.

START RECORDING

Press and hold **RECORD** and **PLAY** on the remote control, or press **RECORD** on the recorder.

B.E.S.T. takes place at the beginning of each first SP and first LP (or EP) recording after inserting the cassette (F) pg. 18).

PAUSE/RESUME RECORDING

Press PAUSE. Press PLAY to resume recording.

STOP RECORDING

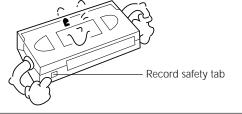
Press **STOP** on the remote control or **STOP/EJECT** on the recorder. Then press **STOP/EJECT** to remove the cassette.

Recording Resume Function

If there is a power outage during recording (or Instant Timer Recording or timer recording), the recording will resume automatically when power is restored to the recorder unless the recorder's memory backup has expired.

Accidental erasure prevention

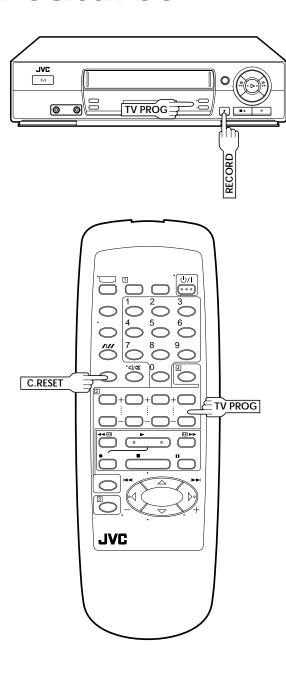
 To prevent accidental recording on a recorded cassette, remove its safety tab. To record on it later, cover the hole with adhesive tape.



2

4

Recording Features



Record One Programme While Watching Another



SELECT CHANNEL TO

Once recording is in progress, all you need to do is to set the channel controls on the TV for the station you wish to view.

 The programme selected with the TV's channel controls appears on the TV screen while the one selected with the TV PROG buttons is recorded on the tape.

Elapsed Recording Time Indication

You can check the exact time of a recording.



RESET COUNTER

Press C. RESET before starting recording or playback.

 The counter is reset to "0:00:00" and shows the exact elapsed time as the tape runs.

Instant Timer Recording (ITR)

This easy method lets you record for from 30 minutes to 6 hours (selectable in 30-min. increments), and shuts the recorder off after recording is finished.

1

START RECORDING

Press RECORD on the recorder.

2

ENGAGE ITR MODE

Press $\bf RECORD$ again. " \bigcirc " blinks and 0:30 appears on the front display panel.

3

SET RECORDING DURATION

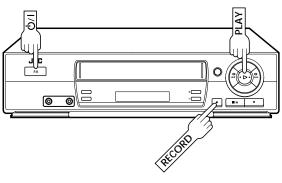
If you want to record for more than 30 minutes, press **RECORD** to extend the time. Each press extends recording time by 30 minutes.

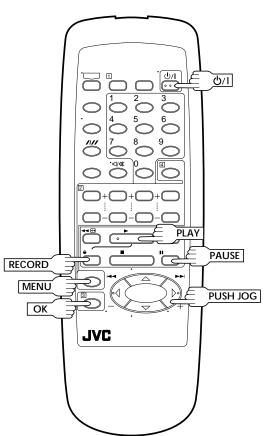
NOTE:

You can only perform ITR using the **RECORD** button on the recorder's front panel.

B.E.S.T. Picture System

Turn on the TV and select the VIDEO channel (or AV mode).





The B.E.S.T. (Biconditional Equalised Signal Tracking) system checks the condition of the tape in use during recording and playback, and compensates to provide the highest-possible recording and playback pictures. The default setting for both recording and playback is "ON".

Preparation

1

TURN ON THE RECORDER

Press U/I.

ACCESS MAIN MENU SCREEN

Press **MENU**.

ACCESS FUNCTION SET SCREEN

Place the pointer next to "FUNCTION SET" by pressing PUSH JOG △∇, then press OK or PUSH JOG ▷.

MAIN MENU

FUNCTION SET
TUNER SET
INITIAL SET

[▲/▼] → ⊙K [MENU] : EXIT

SELECT MODE

Place the pointer next to "B.E.S.T." by pressing PUSH JOG △∇, then press OK or PUSH JOG ▷ to set to "ON" or "OFF".

FUNCTION SET

B.E.S.T. ON
PICTURE CONTROL AUTO
AUTO TIMER OFF

O.S.D. ON
AUTO SP→LP TIMER OFF

AUTO SP→LP TIMER

AUTO SP→LP TIMER

MEMU] : EXIT

RETURN TO NORMAL SCREEN

Press MENU.

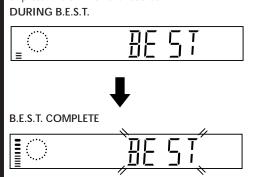
5

Recording

1

START RECORDING

Press and hold **RECORD** and press **PLAY** on the remote, or press **RECORD** on the recorder.



 The recorder spends approximately 7 seconds assessing the condition of the tape, then begins recording.

NOTES:

- The B.E.S.T. system works for both SP and LP (or EP) modes only after a tape has been inserted and the Record mode is first initiated. It does not work during recording.
- In the case of timer recording, the B.E.S.T. system works before recording is initiated.
- Once the cassette is ejected, the B.E.S.T. data is cancelled. The next time the cassette is used for recording, B.E.S.T. is reperformed.
- Pressing the recorder's RECORD button while "BEST" is displayed does not start Instant Timer Recording (□ pg. 17).

ATTENTION

Since the B.E.S.T. system works before recording actually starts, there is a delay of approximately 7 seconds after **RECORD** and **PLAY** on the remote are pressed, or **RECORD** on the recorder is pressed. To make sure you record the desired scene or programme in its entirety, first perform the following steps:

- 1) Press and hold **PAUSE** and press **RECORD** to engage the RECORD PAUSE mode.
 - The recorder then automatically checks the condition of the tape and, after approximately 7 seconds, reenters RECORD PAUSE.
- 2) Press PLAY to start recording.
 - If you want to bypass the B.E.S.T. system and begin recording immediately, set "B.E.S.T." to "OFF" in step 4 on page 18.

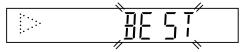
Playback

The recorder assesses the quality of the tape once you initiate playback.

1

START PLAYBACK

Press PLAY.



- The recorder adjusts the playback picture quality based on the quality of the tape in use.
- B.E.S.T. is active during Auto Tracking. "BEST" appears blinking on the recorder's display panel.

NOTES:

- When watching a tape recorded with "B.E.S.T." set to "ON", it is recommended that you leave B.E.S.T. on during playback as well.
- When watching a rental tape or one recorded on another video recorder, or when using this recorder as the player for editing, set B.E.S.T. to your preference by performing steps 1 through 5 on page 18.
- "BEST" only appears at the beginning of automatic tracking.
 Even though it doesn't appear after that, the B.E.S.T. function is operative.

Express Timer Programming

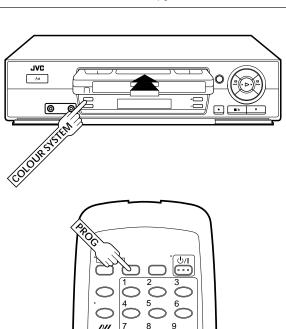
Remember, the clock must be set before you can programme the timer (\$\sqrt{pg}\$, 10).

Before performing the following steps:

START+/-

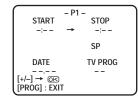
JVC

- Insert a cassette with the safety tab in place. The recorder will come on automatically.
- Turn on the TV and select the VIDEO channel (or AV mode).
- Select the appropriate colour system by pressing the COLOUR SYSTEM button (pg. 26).



ACCESS TIMER PROGRAMMING SCREEN

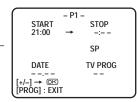
Press **PROG** (If you're just starting out, "P1" appears).



ENTER PROGRAMME START TIME

Press **START** +/- to enter the time you want recording to start.

 Press and hold START +/- to move in 30minute increments, or press and release repeatedly to move 1 minute at a time.



ENTER PROGRAMME STOP TIME

Press **STOP** +/- to enter the time you want recording to stop.

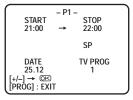
 Press and hold STOP +/- to move in 30-minute increments, or press and release repeatedly to move 1 minute at a time.

ENTER PROGRAMME DATE

Press DATE +/-. (The current date appears on screen. The date you enter appears in its place.)

ENTER CHANNEL POSITION

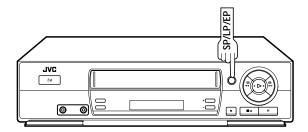
Press TV PROG +/-.

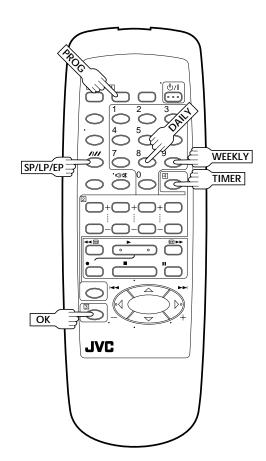


Л

4

TV PROG+/-





SET TAPE SPEED

Press SP/LP/EP (////) to set the tape speed.

RETURN TO NORMAL SCREEN

After confirming all information is correct, press **PROG** or **OK**. "PROGRAM COMPLETED" appears on the screen for about 5 seconds, then normal screen appears.

• Repeat steps 1 – 7 for each additional programme.

ENGAGE RECORDER'S TIMER MODE

Press **TIMER**. The recorder turns off automatically and "O" appears on the display panel.

• To disengage the timer, press TIMER again.

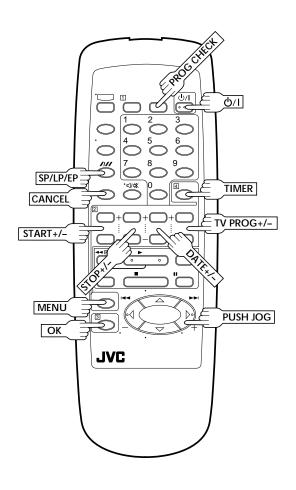
To Timer-Record Weekly Or Daily Serials . . .
. . . anytime during steps 2 through 7, press WEEKLY (NUMBER

key "0") for weekly serials or **DAILY** (**NUMBER** key "8") for daily serials (Monday–Friday). Either "WEEKLY" or "DAILY" appears on the screen. Pressing the button again makes the corresponding indication disappear.

NOTE:

You can programme this recorder to timer-record as many as 8 programmes. If you try to programme the recorder to record a ninth, "PROGRAM FULL" appears on screen. To record the extra programme, you must first cancel any unnecessary programmes (EF pg. 22).

6



Check, Cancel And Replace Programmes

1

DISENGAGE TIMER MODE

Press TIMER, then press ປ/Ι.

ACCESS PROGRAMME CHECK SCREEN

Press **PROG CHECK**.

PR	START		CH	DATE
1	8:00	10:00	3	24.12
2	10:00	10:45	2	25.12
3	11:30	13:00	1	25.12
4				
5				
6				
7				
8				
	OG CHE	CK]: NE	XT	

ACCESS PROGRAMME SCREEN

Press PROG CHECK again to check more information. Each time you press PROG CHECK, the next programme's information

appears.



To cancel or replace a programme...

1

CANCEL OR REPLACE A PROGRAMME

RETURN TO NORMAL SCREEN

5

Press **PROG CHECK** as many times as necessary. If there are still some programmes remaining, go on to step **6**.

RETURN TO TIMER MODE

6

Press TIMER.

Auto SP→LP Timer

If, when timer-recording in SP mode, there is not enough tape to record the entire programme, the recorder automatically switches to LP mode (with PAL broadcasts) or EP mode (with NTSC broadcasts) to allow complete recording.

For Example . . .

Recording a PAL-broadcast programme of 210 minutes in length onto a 180-minute tape.

Approximately 150 minutes

Approximately 60 minutes

SP mode

LP mode

Total 210 minutes

Make sure you set "AUTO SP→LP TIMER" to "ON" at the Function Set screen before the timer-recording starts.

ACCESS MAIN MENU

SCREEN Press MENU.

ACCESS FUNCTION SET SCRFFN

Press **PUSH JOG** △▽ to place the pointer next to "FUNCTION SET", then press OK or PUSH JOG ▷.

SELECT MODE

Press **PUSH JOG** △▽ to place the pointer next to . "AUTO SP→LP TIMER", then press OK or PUSH JOG ▷ to select "ON".

FUNCTION SET	
B.E.S.T. PICTURE CONTROL AUTO TIMER O.S.D. PAUTO SP→LP TIMER	ON AUTO OFF ON ON
[▲/▼] → ⊙K	

FUNCTION CET

RETURN TO NORMAL SCRFFN

Press MENU.

NOTES:

- If you have programmed the recorder to timer-record 2 or more programmes, the second programme and those thereafter may not fit on the tape if you set "AUTO SP→LP TIMER" to "ON". In this case, make sure the mode is not engaged, then set the tape speed manually during timer programming.
- In order to ensure that the recording fits on the tape, this feature may leave a slight non-recorded section at the end of the tape
- There may be some noise and sound disturbance at the point on the tape where the recorder switches from SP to LP (or EP)
- The Auto SP→LP Timer feature is not available during ITR (Instant Timer Recording), and the feature will not work properly with any tapes longer than E-180 or with some tapes of shorter lengths.

Auto Timer

When the Auto Timer is set to ON the timer is automatically engaged when the recorder power is turned off and automatically disengaged when the recorder is powered back on.

ACCESS MAIN MENU SCREEN

Press **MENU**

ACCESS FUNCTION SET SCREEN

Press **PUSH JOG** △▽ to place the pointer next to "FUNCTION SET", then press **OK** or **PUSH JOG** >.

MAIN MENU **PFUNCTION SET** TUNER SET

 $[A/V] \rightarrow OK$ [MENU] : EXIT

SELECT MODE

Press **PUSH JOG** △▽ to place the pointer next to "AUTO TIMER", then press OK or PUSH JOG ▷ to select either "ON" or "OFF".

FUNCTION SET B.E.S.T. ON PICTURE CONTROL AUTO AUTO TIMER OFF O.S.D. AUTO SP→LP TIMER ON OFF $[A/V] \rightarrow \bigcirc \mathbb{K}$ [MENU] : EXIT

RETURN TO NORMAL **SCRFFN**

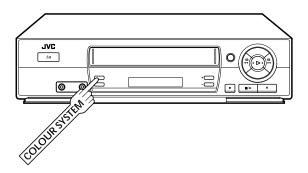
Press MENU.

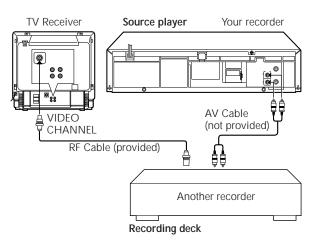
NOTE:

For safety, when Auto timer is set to "OFF", all other recorder functions are disabled while the Timer mode is engaged. To disengage the timer, press TIMER.

24 EN

Edit To Another Video Recorder





You can use your video recorder as the source player and another video recorder as the recording deck.

MAKE CONNECTIONS

Connect the player's AUDIO/VIDEO OUT connectors to the recorder's AUDIO/VIDEO IN connectors.

SET RECORDING DECK'S INPUT MODE

Set the recording deck's external input mode.

SELECT "EDIT" FOR PICTURE **CONTROL SET MODE**

Follow the "Picture Control" section on page 15, then select "EDIT."

NOTE:

When you select "EDIT" to dub tapes, be sure to select "AUTO" (or "NORM" when the B.E.S.T. function is set to "OFF") after you finish dubbing the tapes.

START SOURCE PLAYER

Engage its Play mode.

START RECORDING DECK

Engage its Record mode.

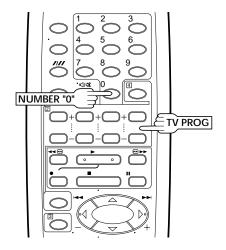
NOTES:

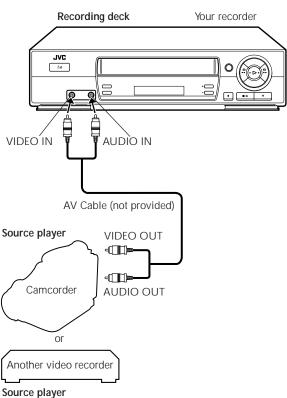
- All necessary cables can be obtained from your dealer.
- When you use this recorder as the player for editing, be sure to set "O.S.D." to "OFF" before starting (□ pg. 8).
 NTSC tapes being played back in the NTSC → PAL mode
- (Fig. 27) cannot be dubbed to another recorder.
- When you dub an NTSC tape using your recorder as the playback deck, select NTSC 3.58 (or NTSC 4.43) with the COLOUR SYSTEM button (F pg. 26).

IMPORTANT:

- To edit, both the player and the recorder must be of the same colour system. Press your recorder's COLOUR **SYSTEM** button to select the appropriate colour system.
- For more information on multi-system compatibility, r pg. 26.

Edit From A Camcorder Or Another Video Recorder





You can use a camcorder or another video recorder as the source player and your video recorder as the recording deck.

1

MAKE CONNECTIONS

Connect the AUDIO/VIDEO OUT connectors on the camcorder or another video recorder to the front panel AUDIO/VIDEO input connectors on the recording deck.

SET RECORDER'S INPUT MODE

7

Press **NUMBER** key "0" and/or **TV PROG** so that "F-1" appears on the display panel.

SELECT "EDIT" FOR PICTURE CONTROL SET MODE

Follow the "Picture Control" section on page 15, then select "EDIT."

NOTE:

When you select "EDIT" to dub tapes, be sure to select "AUTO" (or "NORM" when the B.E.S.T. function is set to "OFF") after you finish dubbing the tapes.

START SOURCE PLAYER

Engage its Play mode.

4

START RECORDING DECK

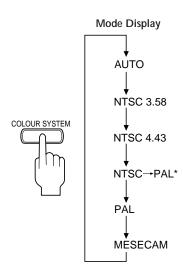
Engage its Record mode.

5

IMPORTANT:

- To edit, both the player and the recorder must be of the same colour system. Press your recorder's COLOUR SYSTEM button to select the appropriate colour system.
- PAL, SECAM and NTSC camcorders or video recorders can be used as a player for editing.
- For more information on multi-system compatibility, pg. 26.

Setting Of The Colour System Select Buttons



* "NTSC→PAL" appears during playback only.

Use the COLOUR SYSTEM button on the front panel to select the colour system. Pressing this button changes the mode as illustrated on the left. The On-Screen display will show which mode is selected.

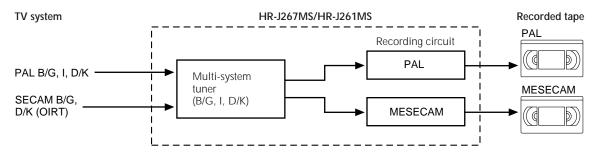
Mode	Description		
AUTO	Usually set to this mode. This mode automatically detects PAL, NTSC, MESECAM and adjusts to the colour system being recorded or played back. When it does not perform properly, set the colour system manually.		
MANUAL	For recording, there is a choice of 4 selectable modes; PAL/MESECAM/NTSC 3.58/NTSC4.43. Select the mode that matches the colour signal being received. For playback, there is an additional mode which allows NTSC tapes to be played back and viewed on PAL TVs.		

NOTES:

- In the AUTO mode, NTSC signals will be automatically recorded as NTSC 3.58.
- In the AUTO mode, NTSC tapes will be played back as NTSC
- SECAM signals will always be recorded as MESECAM. Select the AUTO or the MESECAM mode when recording SECAM
- When playing back a SECAM tape, select the AUTO or MESECAM mode. The playback picture will always be monochrome.
- In the NTSC4.43 mode, with some TVs, on-screen displays (Program screen etc.) may roll up or down and there may be a loss of colour. When this happens, select the AUTO mode.

Off-Air Recording

The built-in multi-system tuner is capable of receiving PAL B/G, I and D/K, and SECAM B/G and D/K broadcasts.

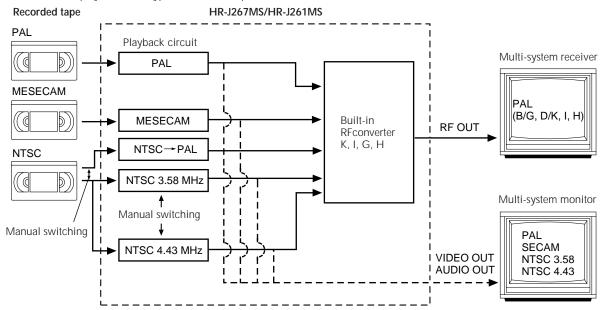


NOTE:

This model does not operate in BRAZIL (PAL-M) or ARGENTINA (PAL-N).

Playback

This recorder can play back all 3 types of recorded tape.



NOTES:

When viewing NTSC tapes on a PAL TV set:

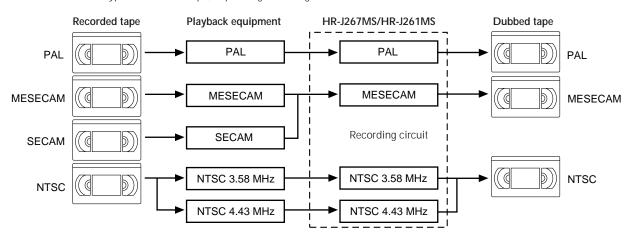
- The picture may shrink vertically with black bars appearing at the top and bottom of the screen. This is not a malfunction on the part of the video recorder nor the TV.
- The picture may roll up or down. This can be corrected using the V-HOLD control found on some TVs. (This cannot be corrected if the TV does not have a V-HOLD control.)
- During search, still, or frame-by-frame playback, the picture will be distorted, and there may be a loss of colour.

ATTENTION:

When this recorder is connected to a multi-system TV, the audio signal may not be heard or may be noisy if the colour system select switch of the TV is adjusted to the AUTO position. In such a case, set the TV's colour system select switch to the appropriate position which corresponds to the TV system you have selected at the TV System Select screen.

Tape-To-Tape Editing

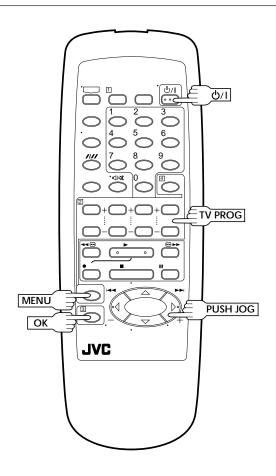
There are 4 different types of recorded tape, depending on the signal recorded.



28 EN

TUNER SE

Turn on the TV and select the VIDEO channel (or AV mode).



IMPORTANT

Perform the following steps only if auto channel set has not been set correctly by Auto Set Up function (pg. 6) or if you have moved to a different area or if a new station starts broadcasting in your area.

Your recorder needs to memorise all necessary stations in channel positions in order to record TV programmes. Auto Channel Set automatically assigns all receivable stations in your area so that you can call them up with the TV PROG buttons without going through any vacant channels.

Auto Channel Set

TURN ON THE RECORDER

Press U/I.

ACCESS MAIN MENU SCRFFN

Press MENU.

ACCESS TUNER SET SCREEN

Press **PUSH JOG** △▽ to place the pointer next to "TUNER SET", then press OK or PUSH JOG ▷.

MAIN MENU FUNCTION SET INITIAL SET [▲/▼] → ⊙K [MENU] : EXIT

SELECT AUTO CH SET MODE

Press **PUSH JOG** △▽ to place the pointer next to "AUTO CH SET", then press OK or PUSH JOG ▷.

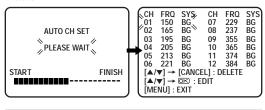
TUNER SET CH EDIT [▲/▼] → ©K [MENU] : EXIT

SELECT TV SYSTEM

Press **PUSH JOG** △▽ to place the pointer next to the appropriate TV system (refer to the table on page 7), then press OK or PUSH JÓG ⊳.

 Auto Channel Set will start

TV SYSTEM SELECT ₽ B/G D/K [▲/▼] → ©K [MENU] : EXIT

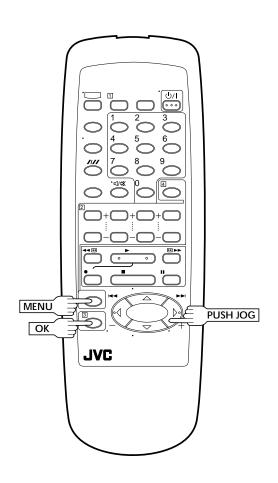


RETURN TO NORMAL **SCREEN**

Press **MENU**.

IMPORTANT

- If no sound accompanies the picture or the audio sounds unnatural on some channels that have been stored by Auto Channel Set, the TV system setting for those channels may be incorrect. Select the appropriate TV system for those channels. IF "TV System Selection -When you see the picture but the audio can't be heard or sounds unnatural" on page 31.
- Since your video recorder memorizes all detected stations even if the reception condition is poor, some of those stored stations may produce a noisy picture. To delete those stations, IF "Delete A Channel" on page 30.



Manual Channel Set

Store channels that were not stored during Auto Set Up (pg. 6) or Auto Channel Set (pg. 28).

ACCESS TUNER SET SCREEN

Perform steps 1 – 3 of "Auto Channel Set" on page 28.

ACCESS CHANNEL LIST

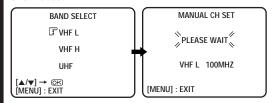
Press **PUSH JOG** $\triangle \nabla$ to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG** \triangleright .

SELECT POSITION

Press **PUSH JOG** △∇ to place the pointer next to an open channel position, then press **OK** or **PUSH JOG** ▷.

SELECT BAND

Press **PUSH JOG** △▽ to place the pointer next to the band of your choice, then press **OK** to initiate Manual Channel Set.



 $[A/V] \rightarrow OK$ [MENU] : EXIT

CONTINUE

SET DESIRED STATION

The screen to the right appears when a station is detected.

If you do not want to store the detected station...

Press PUSH JOG △▽ to place the pointer next to "CONTINUIF" then press

"CONTINUE", then press
OK or PUSH JOG ▷.

Channel search will resume. If you want to store the detected station... Press **PUSH JOG** $\triangle \nabla$ to place the pointer next to "STORE", then press **OK** or **PUSH JOG** \triangleright . The Channel List appears again.

- The blueback screen and the TV picture currently being broadcast appear alternately for 8 seconds each.
- If you want to store another channel, repeat steps 3 5.
- When channel search completes for that band, the Band Select screen appears again. To set channels for other bands, select another band and start Manual Channel Set again (set 4 and 5).
- For fine tuning adjustment, see "Fine-Tuning Channels" on page 31.

RETURN TO NORMAL SCREEN

Press MENU.

6

Delete A Channel

SCREEN

1

Perform steps 1 – 3 of "Auto Channel Set" on page 28.

ACCESS TUNER SET

ACCESS CHANNEL LIST

Press **PUSH JOG** $\triangle \nabla$ to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG** \triangleright .

SELECT CHANNEL

Press **PUSH JOG** △▽ to until the channel you want to delete begins blinking.

(CH	FRQ	SY\$,	СН	FRQ	SYS	
ľ	01	150	BG (07	229	BG	
ľ	02	165	BG [™]	80	237	BG	
ı	03	195	BG	09	355	BG	
ı	04	205	BG	10	365	BG	
ı	05	213	BG	11	374	BG	
ı	06	221	BG	12	384	BG	
ı	[▲/▼] → [CANCEL] : DELETE						
ı	[▲/▼] → ©K : EDIT						
l	[MENÜ] : EXIT						

DELETE CHANNEL

Press CANCEL.

- To re-store it, simply press PUSH JOG
- Repeat steps 3 4 as necessary.

01 02 03 04 05 06	FRQ 165 195 205 213 221	SYS, BG BG BG BG BG BG	CH 07 08 09 10 11	FRQ 229 237 355 365 374 384	SYS BG BG BG BG BG	
[▲/▼] → [◀] : ADD [MENU] : EXIT						

RETURN TO NORMAL SCREEN

Press **MENU**.

Swap Channel Positions

Example: To swap CH03 and CH09.

1

ACCESS TUNER SET SCREEN

Perform steps 1 – 3 of "Auto Channel Set" on page 28.

ACCESS CHANNEL LIST

Press **PUSH JOG** △▽ to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG** ▷.

SELECT POSITION (e.g. 03)

Press **PUSH JOG** △▽ until the section of CH "03" begins blinking, then press **OK** or **PUSH JOG** ▷.

• Only "03" will blink.

1	CH	FRQ	SYS	CH	FRQ	SYS
	01	150	BG	07	229	BG
	02/	165	BG	80	237	BG
	03(195	BG	09	355	BG
	704 ℃	` 205	BG	10	365	BG
	05	213	BG	11	374	BG
	06	221	BG	12	384	BG
	[0 –	9]: IN	PUT C	Н		
	OK)	: FINE	TUNII	NG		
	[ME	NU]: [EXIT			

SELECT POSITION (e.g. 09)

Press **NUMBER** keys to input "0" and "9".

- The two selected channels will be swapped.
- To cancel the channel swapping, press PUSH JOG ⊲

CH	FRQ	SYS	CH	FRQ	SYS			
01	150	BG	07	229	BG			
02	165	BG	\ 08/	237	BG			
03	355	BG	(09)	195	BG			
04	205	BG	″10 [™]	365	BG			
05	213	BG	11	374	BG			
06	221	BG	12	384	BG			
[◀]	[◀]: CANCEL							
⊙K : OK								
[MENU] : EXIT								
	_							

STORE NEW POSITIONS
Press OK or PUSH JOG >.

• Repeat steps 3 – 5 as necessary.

RETURN TO NORMAL SCREEN

Press **MENU**.

Fine-Tuning Channels

ACCESS TUNER SET SCREEN

Perform steps 1 – 3 of "Auto Channel Set" on page 28.

ACCESS CHANNEL LIST

Press **PUSH JOG** $\triangle \nabla$ to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG** \triangleright .

SELECT CHANNEL TO FINE-TUNE

Press **PUSH JOG** △∇ until the channel you want to tune begins blinking, then press **OK** twice.

 The "FRQ" number for that channel starts blinking.

CH	\FRQ	SYS	CH	FRQ	SYS
01	150	BG	07	229	BG
02	″165`	`BG	80	237	BG
03	195	BG	09	355	BG
04	205	BG	10	365	BG
05	213	BG	11	374	BG
06	221	BG	12	384	BG
[A /	▼] : Fl	NE TU	NING		
ŌK)	: SEL	ECT SY	STEM		
[ME	NU]:	EXIT			

PERFORM TUNING

Press **PUSH JOG** $\triangle \nabla$ until the picture becomes clearer, then press **OK** or **PUSH JOG** \triangleright .

• Repeat steps 3 and 4 as necessary.

RETURN TO NORMAL SCREEN

Press **MENU**.

TV System Selection – When you see the picture but the audio can't be heard or sounds unnatural

ACCESS TUNER SET SCREEN

Perform steps 1 – 3 of "Auto Channel Set" on page 28.

ACCESS CHANNEL LIST

Press **PUSH JOG** △▽ to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG** ▷.

SELECT CHANNEL

Press **PUSH JOG** △∇ until the channel you want to change its TV system begins blinking, then press **OK** three times.

 The "SYS" display for that channel starts blinking.

ı	CH		ςγς _λ	CH	FRQ	SYS
	01	150	BG	07	229	BG
	02	165 1	″BG [™]	80	237	BG
	03	195	BG	09	355	BG
	04	205	BG	10	365	BG
	05	213	BG	11	374	BG
	06	221	BG	12	384	BG
			ELECT	SYSTE	M	
	(OK)	: OK				
	[ME	NU] :	EXIT			

SELECT TV SYSTEM

Press **PUSH JOG** $\triangle \nabla$ to select the appropriate TV system (BG \rightarrow DK \rightarrow I). Then press **OK** or **PUSH JOG** \triangleright .

Repeat steps 3 and 4 as necessary.

RETURN TO NORMAL SCREEN

Press **MENU**.



Before requesting service for a problem, use this chart and see if you can repair the trouble yourself. Small problems are often easily corrected, and this can save you the trouble of sending your video recorder off for repair.

POWER		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
No power is applied to the recorder.	The mains power cord is disconnected.	Connect the mains power cord.
The clock is functioning properly, but the recorder cannot be powered.	● "②" is displayed on the display panel with Auto Timer set to "OFF".	Press the TIMER button to turn the "②" indicator off.
3. The remote control won't function.	The batteries are discharged.	Replace the dead batteries with new ones.
TAPE TRANSPORT		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
The tape does not run during recording.	• " " is displayed on the display panel.	Press PLAY to turn the "" indicator off.
The tape will not rewind or fast- forward.	 The tape is already fully rewound or fast-forwarded. 	Check the cassette.
PLAYBACK		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
The playback picture does not appear while the tape is running.	 If you're using the RF OUT connection the TV receiver's channel selector is not set to the VIDEO channel. the recorder's VIDEO channel has not been correctly set. If you're using the AV connection, the TV receiver is not set to the AV mode. 	If you are using the RF OUT connection set the TV receiver to the VIDEO channel. (Fg. 4) Perform "Video Channel Set" (Fg. 4) If you are using the AV connection, set the TV to its AV mode.
Noise appears during visual search.	• This is normal.	
Noise appears during normal playback.	 The automatic tracking mode is engaged. 	Try manual tracking. (🖙 pg. 13)
Noise appears during slow-motion playback.	 The automatic tracking mode is engaged. 	Try manual tracking. (🖙 pg. 13)
Noise appears during still playback.		Press TV PROG + or – a few times to remove the noise bars from the screen.
The playback picture is blurred or interrupted while TV broadcasts are clear.	The video heads may be dirty.	Consult your JVC dealer.
Playback picture has a loss of colour. No sound accompanies the	 The wrong colour system is selected for the tape being played back. The wrong colour system was selected during recording. 	Select the correct colour system by pressing the COLOUR SYSTEM button. (pp. 26) Once recorded, the signal cannot be corrected. Be sure to choose the correct setting before recording.
No sound accompanies the playback picture.	 The TV system you have selected at the TV System Select screen is incorrect. 	Set it to the correct position for the TV broadcast system used in your area. (F) pg. 31)

RECORDING			
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION	
Recording cannot be started.	 There is no cassette loaded, or the cassette loaded has had its Record Safety tab removed. 	Insert a cassette, or using adhesive tape, reseal the slot where the tab was removed.	
2. TV broadcasts cannot be recorded.	"F-1" has been selected as the input mode.	Set to the desired channel.	
3. Tape-to-tape editing is not possible.	 The source (another video recorder, camcorder) has not been properly connected. All necessary power switches have not been turned on. The input mode is not correct. 	Confirm that the source is properly connected. Confirm that all units' power switches are turned on. Set the input mode to "F-1".	
Camcorder recording is not possible.	The camcorder has not been properly connected.The input mode is not correct.	Confirm that the camcorder is properly connected. Set the input mode to "F-1".	
TIMER RECORDING			
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION	
Timer recording won't work.	 The clock and/or the timer have 	Re-perform the clock and/or timer	
-	been set incorrectly. The timer is not engaged.	settings. Press TIMER and confirm that "②" is displayed on the display panel.	
On-screen timer programming is not possible.		settings. Press TIMER and confirm that "②" is	
	The timer is not engaged.	settings. Press TIMER and confirm that "②" is displayed on the display panel. Timer programming can't be performed while a timer recording is	
not possible. 3. "O" and "OO" on the display panel	 The timer is not engaged. Timer recording is in progress. The timer is engaged but there's no 	settings. Press TIMER and confirm that "②" is displayed on the display panel. Timer programming can't be performed while a timer recording is in progress. Wait until it finishes. Load a cassette with the Record Safety tab intact, or cover the hole	
not possible. 3. "O" and "OO" on the display panel won't stop blinking. 4. The cassette is automatically ejected, and "O" and "OO" on the	 The timer is not engaged. Timer recording is in progress. The timer is engaged but there's no cassette loaded. The loaded cassette has had its 	settings. Press TIMER and confirm that "②" is displayed on the display panel. Timer programming can't be performed while a timer recording is in progress. Wait until it finishes. Load a cassette with the Record Safety tab intact, or cover the hole using adhesive tape. Remove the cassette and cover the hole with adhesive tape, or insert a cassette with the Record Safety tab	

OTHER PROBLEMS				
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION		
Whistling or howling is heard from the TV during camcorder record- ing.	The camcorder's microphone is too close to the TV.The TV's volume is too high.	Position the camcorder so its microphone is away from the TV. Turn the TV's volume down.		
When scanning channels, some of them are skipped over.	 Those channels have been designated to be skipped. 	If you need the skipped channels, restore them. (pg. 29)		
3. The channel cannot be changed.	Recording is in progress.	Press PAUSE to pause the recording, change channels, then press PLAY to resume recording.		
Channel settings that were made manually seem to have changed or disappeared.	 After the manual settings were made, Auto Channel Set was performed. 	Perform manual setting again.		
No channels are stored in the recorder's memory.	The TV aerial cable was not connected to the recorder when Auto Set Up was performed.	Connect the TV aerial cable to the recorder properly and turn off the recorder power once, then turn the recorder power back on again. The recorder will try Auto Set Up again. (LF pg. 6)		
6. ":" is displayed on the front display panel after a power outage.	The lithium battery is exhausted.	Replace the lithium battery with a new one. (IF pg. 5)		

QUESTIONS AND ANSWERS

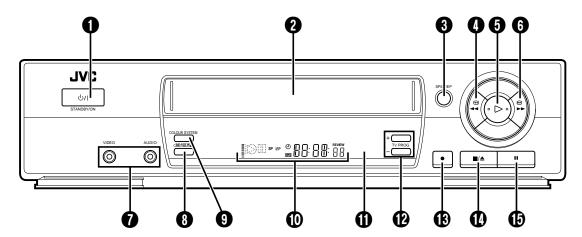
EN **35**

PLAYBACK	RECORDING	
 Q. What happens if the end of the tape is reached during playback or search? A. The tape is automatically rewound to the beginning. Q. Can the video recorder indefinitely remain in the still mode? 	 Q. When I pause and then resume a recording, the end of the recording before the pause is overlapped by the beginning of the continuation of recording. Why does this happen? A. This is normal. It reduces distortion at the pause and resume points. 	
 A. No. It stops automatically after 5 minutes to protect the heads. 	 Q. Can the video recorder indefinitely remain in the Record-Pause mode? A. No. The video recorder goes to its Stop mode automatically after 5 minutes to protect the heads. 	
problem? A. This is normal.	 Q. What happens if the tape runs out during recording? A. The video recorder automatically rewinds it to the beginning. 	
Q. When returning from multi-speed search to normal playback, the picture is disturbed. Should I be concerned about this?	TIMER RECORDING	
A. No, it is normal.	 Q. "O" and "O" remain lit on the display panel. Is there a problem? A. No. This is a normal condition for a timer recording in progress. 	
Q. Other than preventing further recording, what effect does removing the Record Safety tab have? A. It disables marking of index codes.	Q. Can I program the timer while I'm watching a tape or a TV broadcast?A. You won't see the picture as it is replaced by the onscreen menu, but the audio from the program or tape you're viewing can be heard.	
Q. Sometimes, during Index Search, the video recorder can't find the programme I want to see. Why not? A. There may be index codes too close together.	Q. Is it possible to timer-record a TV programme broadcast in 2000?A. Yes, it is possible.	

ATTENTION:

This recorder contains microcomputers. External electronic noise or interference could cause malfunctioning. In such cases, switch the recorder off and unplug the mains power cord. Then plug it in again and turn the recorder on. Take out the cassette. After checking the cassette, operate the unit as usual.

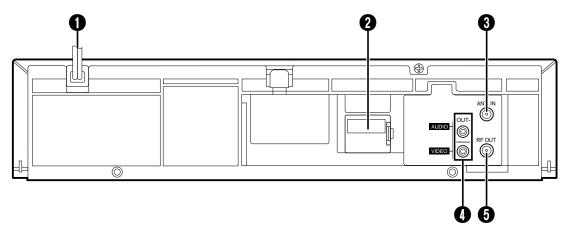
FRONT VIEW



- 🕦 STANDBY/ON ്വ Button 🖙 pg. 8
- 2 Cassette Loading Slot
- 3 SP/LP/EP Button # pg. 16 4 Rewind [REW] Button # pg. 11, 12
- PLAY Button pg. 11Fast Forward [FF] Button pg. 11, 12
- 7 VIDEO/AUDIO Input Connectors ☞ pg. 25
- REVIEW Button
 pg. 13

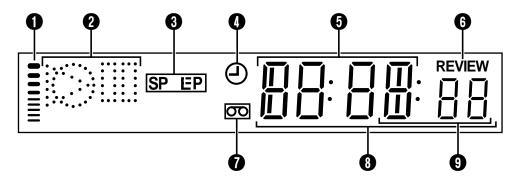
- ¶ COLOUR SYSTEM Button
 ☐ pg. 26
- 10 Display Panel 🖙 pg. 37
- 1 Infrared Beam Receiving Window
- TV PROG +/− Buttons pg. 16
- 13 RECORD Button pg. 16
- STOP/EJECT Button
 pg. 11
- 1 PAUSE Button pg. 12

REAR VIEW



- Mains Power Cord
 pg. 3
- 2 Lithium Battery Compartment pg. 53 ANT. IN Connector pg. 3

DISPLAY PANEL



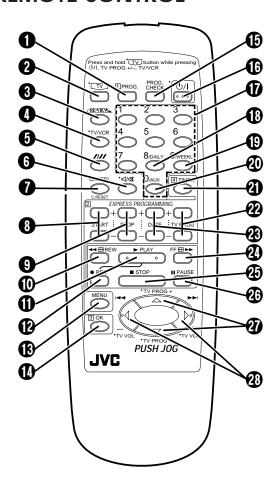
PLAY:	 	STILL: SLOW:	
FF/REW VARIABLE SHUTTLE SEARCH:		RECORD:	()
SHOTTEL SLANCIT.		RECORD PAUSE:	

- Tape Speed Indicators pg. 16
 "Timer" Indicator pg. 21
 Channel Display
 Clock Display
 Instant REVIEW Indicator pg. 13
 "Cassette Loaded" Mark

- 8 Counter Display9 Mode Display (F-1)

 $38_{\it EN}$ INDEX (cont.)

REMOTE CONTROL



Buttons with a small dot on the left side of the name can also be used to operate your JVC TV while holding down the ${f TV}$ button.

This remote control transmits A code signals only; it is not applicable to B code signals.

- 1 PROG Button (F pg. 20)
- 2 TV Button (See below)
- 3 REVIEW Button (car pg. 13)
- 4 TV/VCR Button (See below)
- Recording Speed [SP/LP/EP] Button (Fig. 16)

 Tracking Button (Fig. 13)
- 6 □ □ (TV Muting) Button (See below)
- 7 CANCEL Button (F pg. 22)

Counter [C.] RESET Button (pg. 17)

- **8** START +/− Button (🖙 pg. 20)
- STOP +/− Button (□ pg. 20)
- 1 PLAY Button (F pg. 11)
- Record [REC] Button (pg. 16)
- MENU Button (□ pg. 8)
- OK Button (□ pg. 4)
- 1 PROG CHECK Button (F pg. 22)
- 16 STANDBY/ON ७/I Button (☐ pg. 8)
- 1 NUMBER Buttons (F pg. 16)
- (1) WEEKLY Timer Recording Button (127 pg. 21)
- ② "AUX" Mode Select Button (□ pg. 25)
- TIMER Button (□ pg. 21)
- 2 TV PROG +/- Button (2 pg. 16, 20)
- 2 Fast-Foward [FF] Button (F) pg. 11, 12)
- 3 STOP Button (□ pg. 11)
- 29 PAUSE Button (F pg. 12)
- ② PUSH JOG △▼ Button (□ pg. 6)

 TV PROG +/- Button (See below)

TV Volume [VOL] +/- Button (See below)

How To Use

The remote control can operate most of your video recorder's functions, as well as basic functions of JVC TV sets. (See below.)

- Point the remote control toward the sensor window.
- The maximum operating distance of the remote control is about 8 m.

Operating JVC TVs

To operate your TV, while holding down TV, press the corresponding button: STANDBY/ON 也/I, TV/VCR, TV PROG +/-, TV VOL +/-, 如/ 軟 (TV Muting).

NOTES:

- When inserting the batteries, be sure to insert in the correct directions as indicated under the battery cover.
- Depending on the type of JVC TV, there may be cases where some or all functions cannot be operated using the remote control.
- If the remote control doesn't work properly, remove its batteries, wait a short time, replace the batteries and then try again.

SPECIFICATIONS

GENERAL

Power requirement

Rating : AC 110 – 240 V \sim , 50/60 Hz Operating : AC 90 – 260 V \sim , 50/60 Hz : 18 W

Power consumption

Operating

Temperature

: 5°C to 40°C

: -20°C to 60°C Storage Operating position : Horizontal only Dimensions (WxHxD) : 400 x 94 x 275 mm

Weight 3.2 kg Format : VHS standard

Maximum recording time

(SP) : 240 min. with E-240 video cassette (PAL/MESECAM)

: 160 min. with T-160 video

cassette (NTSC)

(LP) : 480 min. with E-240 video cassette (PAL/MESECAM)

(EP) : 480 min. with T-160 video

cassette (NTSC)

VIDEO/AUDIO

Signal system : PAL-type colour signal and

CCIR monochrome signal, 625 lines 50 fields : NTSC colour and EIA monochrome signals, 525 lines/60 fields

Recording system : Rotary 2 head helical scan

system

Signal-to-noise ratio : 45 dB

Horizontal resolution : 250 lines (PAL/MESECAM)

220 lines (NTSC) 70 Hz to 10,000 Hz Frequency range Input/Output RCA connectors

(IN x 1, OUT x 1)

TUNER/TIMER

TV channel storage

: 99 positions (+AUX position) capacity : Frequency synthesized tuner Tuning system Channel coverage : VHF (Low) 42 – 175 MHz

(High)175 - 470 MHz UHF 470 – 870 MHz

Aerial output : UHF channels (Adjustable

E28 - E60)

Memory backup time : Approx. 6 months

Estimated figure based on supplied fresh battery; actual performance may differ.

ACCESSORIES

Provided accessories : RF cable.

> Infrared remote control unit, "R6/UM-3" battery x 2, Lithium battery CR2025

Specifications shown are for SP mode unless otherwise specified.

Design and specifications subject to change without notice.



